

ABSTRACT OF THE DISCLOSURE

A centrifugal pump is disclosed that has a casing having a motor and an impeller mounted to an end of the motor shaft positioned inside the casing. The casing has an inlet nozzle and an outlet nozzle with a flow channel therebetween allowing fluids drawn into the casing via the centrifugal force generated by the impeller to flow over at least a portion of the motor to cool the motor before the fluids exit the outlet nozzle. Gaps may also be provided to permit fluids to flow around the other surfaces of the interior cavity of the pump in addition to the flow channel for additional motor cooling. In some embodiments, the inlet nozzle and the outlet nozzle may be placed generally on a single axis on a football shape casing to provide an in-line configuration.

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